

In The Claims:

1. (Amended) A magnetic bearing assembly adapted to be used in a motor, comprising:

a magnetic portion connected to a shaft and a base for simultaneously generating a radially repulsive magnetic force and an axially repulsive magnetic force, wherein said magnetic portion includes an upper magnetic portion and a lower magnetic portion which are symmetrically disposed in opposite orientations respectively; and

a bearing portion connected to said shaft and said base for supporting said shaft upon rotation of said shaft,

wherein each of said upper magnetic portion and said lower magnetic portion includes a first magnetic ring and a second magnetic ring connected to said base, and a third magnetic ring connected to said shaft,

said first magnetic ring and said second magnetic ring are in substantially axial alignment so as to interact in repulsion to provide said axially repulsive magnetic force, and

said third magnetic ring is substantially aligned with said second magnetic ring so as to provide said radially repulsive magnetic force, whereby said first magnetic ring and said third magnetic ring interact in repulsion to provide said repulsive magnetic force and keep the shaft axially positioned.

16. (Amended) A magnetic bearing assembly adapted to be used in a motor, comprising:

a first magnetic portion connected to a shaft and a base for generating a repulsive magnetic force, wherein said first magnetic portion has a first magnetic ring and a second magnetic ring connected to said shaft, a third magnetic ring connected to said base, and said first, second and third magnetic ring being juxtaposed along axial alignment to produce an axially repulsive magnetic force;

a second magnetic portion including an inner magnetic ring and an outer magnetic ring for providing a radially repulsive magnetic force; and

a bearing portion connected to said shaft and said base for supporting said shaft upon rotation of said shaft.

Please cancel claims 17-18.

19. (Amended) The magnetic bearing assembly according to Claim 16, wherein said inner magnetic ring and said outer magnetic ring are disposed in radial alignment with each other to have like polar disposition.

26. (Amended) The magnetic bearing assembly according to Claim 16, wherein said outer magnetic ring has an inner surface formed by a diameter of said outer magnetic ring and said inner magnetic ring has an outer surface formed by a diameter of said inner magnetic ring so that said outer surface of said inner magnetic ring is substantially aligned with said inner surface of said outer magnetic ring to provide radially repulsive magnetic force.

27. (Amended) The magnetic bearing assembly according to Claim 16, wherein said outer magnetic ring is connected to said base and said inner magnetic ring is connected to said shaft.

29. (New) A magnetic bearing assembly adapted to be used in a motor, comprising:
a magnetic portion connected to a shaft and a base for simultaneously generating a radially magnetic force and an axially magnetic force, wherein said magnetic portion includes a first magnetic portion and a second magnetic portion which are disposed symmetrically in opposite orientations for respectively simultaneously providing said radially and axially magnetic forces; and

a bearing portion connected to said shaft and said base for supporting said shaft upon rotation of said shaft.

30. (New) A magnetic bearing assembly adapted to be used in a motor, comprising:
a magnetic portion connected to a shaft and a base for simultaneously generating a radially magnetic force and an axially magnetic force, wherein said magnetic portion includes a first magnetic portion for providing said radially magnetic force and a second magnetic portion for providing said an axially magnetic force; and

a bearing portion connected to said shaft and said base for supporting said shaft upon rotation of said shaft.